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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/080,728	02/22/2002	Brian C. Banister	LSI-006-CIP	8379	
75	90 09/14/2005		EXAM	EXAMINER BURD, KEVIN MICHAEL	
Martin J. Jaqu			BURD, KEVI		
JAQUEZ & AS			ART UNIT	PAPER NUMBER	
62650 Greenwic	ch Drive		ARTONII	FAFER NUMBER	
Suite 100D		2631			
San Diego, CA	92122-5916		DATE MAILED: 09/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/080,728	BANISTER, BRIAN C.				
Office Actio	n Summary	Examiner	Art Unit				
		Kevin M. Burd	2631				
The MAILING DAT Period for Reply	TE of this communication ap	pears on the cover sheet with the c	orrespondence add	dress			
WHICHEVER IS LONGE - Extensions of time may be avail after SIX (6) MONTHS from the - If NO period for reply is specifie - Failure to reply within the set or	ER, FROM THE MAILING D able under the provisions of 37 CFR 1.1 mailing date of this communication. d above, the maximum statutory period extended period for reply will, by statute later than three months after the mailin	Y IS SET TO EXPIRE 3 MONTH(ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE g date of this communication, even if timely filed	N. nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status							
1) Responsive to con	nmunication(s) filed on 09 M	fav 2005.					
2a) ☐ This action is FINA		s action is non-final.					
3) Since this applicat	·	nce except for formal matters, pro	secution as to the	merits is			
		Ex parte Quayle, 1935 C.D. 11, 45					
Disposition of Claims							
4)⊠ Claim(s) <u>1-45</u> is/ar	e pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/	_						
6)⊠ Claim(s) <u>1-6,8-13,</u>	☑ Claim(s) <u>1-6,8-13,16-32,34,35 and 37-42</u> is/are rejected.						
7)⊠ Claim(s) <u>7,14,15,</u> 3	☑ Claim(s) <u>7,14,15,33,36 and 43-45</u> is/are objected to.						
8) Claim(s) are	e subject to restriction and/o	r election requirement.					
Application Papers							
9) The specification is	objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>22 February 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declara	ation is objected to by the Ex	caminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. §	i19						
	s made of a claim for foreign * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	·			
1. Certified cor	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. ☐ Copies of th	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (F	PTO-892)	4) Interview Summary	(PTO-413)				
2) 🔲 Notice of Draftsperson's Pate	nt Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) M Information Disclosure Stater Paper No(s)/Mail Date	ment(s) (PTO-1449 or PTO/SB/08) ·	5)	atent Application (PTO	-152)			

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Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 3/5/2004; 3/29/2004 and 5/9/2005 are being considered by the examiner.

Drawings

2. Figures 1-3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 8-13, 16-24, 34 and 35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims comprise variables that are not defined in the claims. A definition of these variables must be found

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in the claims to distinctly claim the subject matter, which Applicant regards as his invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-6, 25-32 and 37-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Harrison et al (US 6,434,366).

Regarding claim 1, 31, 37 and 41, Harrison discloses an apparatus and a method of estimating adaptive array weights used to transmit a signal to a receiver in a wireless communication system. The transceiver is shown in figure 5. A channel autocorrelation matrix is determined (column 4, lines 38-67). When a single weight is used per element, the set of weights may also be referred to as a "weight vector" (column 4, lines 12-14). Feedback from the receiver is input to the weight computer 306 in figure 5 and these weights are used to deliver the maximum power according to the correct autocorrelation matrix (column 4, lines 38-67).

Regarding claims 2, 4-6, 32 and 42, the matrix A is generated according to the auto correlation matrix as stated in column 4, lines 38-67. The transmitted signal will be

received at the receiver (subscriber unit). The subscriber unit will transmit transmitter control data to adapt the weights in the transmitter (column 4, lines 9-37).

Regarding claim 3, the communication system is a CDMA system (column 3, lines 39-42).

Regarding claims 25-30, Harrison further discloses the transmitter control data provides the base transceiver information necessary to modify the traffic channel signals in a way that enhances the gain of the antenna array for the particular location of the subscriber units (column 4, lines 1-5).

Regarding claims 38-40, the transmitting antennae are connected as shown in figure 5.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Burd 9/12/2005

KEVIN BURD